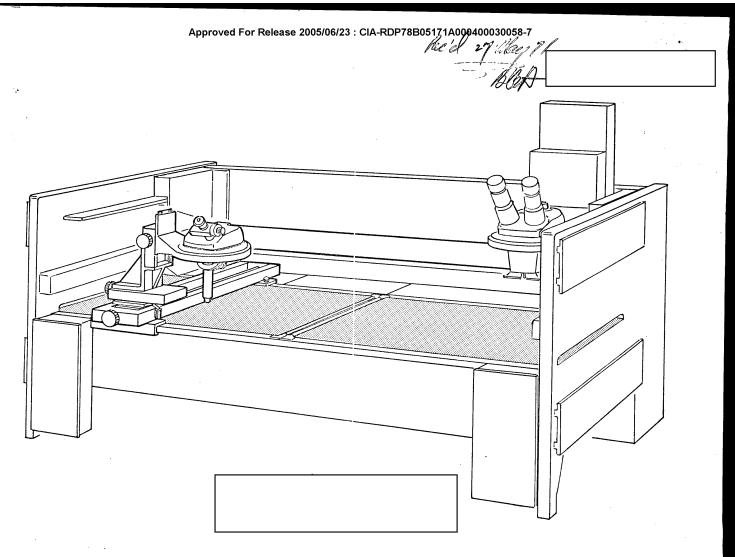
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Approved For Release 2005/06/23: CIA-RDP78B05171A000400030058-7 X1 Discussion of proposal. luil dixeussion of sucottines of carria Approved For Release 2005/06/23: CIA-RDP78BØ5171A000400030058-7

of motion at any orccol. MB well provide From 240 system with 28 arms a ATE, and a From 70 with 2x mores. hercription and discussion of menousation Restatement of millerns 1- Heed closer x-4 speed differen 2 - I moother carriage motion -3 - fice precise means on menauration. 4 - Heed y-lock equal to present 5 - Preferable to mount madioance mount on carriage with orter mount, capable of living duranusted 6 - Jow spee C breakaway (station

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Rec'd 10 June 91

25X1

- 1. The lock of the microscope carriage in the x direction is satisfactory as presently exists.
- 2. The lock in the y direction of the microscope carriage is satisfactory when the cross rod is locked.
- 3. Less difference is required between the x and y speed when bridge is motor driven. A differential not greater than 2:1 is satisfactory.
- 4. A smoother movement to the bridge is required, i.e., elimination of speed variations and jerky movements.
- 5. An average force of $1-1/2 \pm 1/2$ lb. manual carriage movement is desired.
- 6. Reduction in the low speed break-away, i.e., bridge movement should start at a very low speed rather than starting with a large step.
- 7. A means of accurately pointing, i.e., aligning reticles with points on the film.

 This could be accomplished either with the motorized bridge drive, or preferably with a mechanical manual control. Trade offs between the minimum bridge motor driven speed with easily controlled manual drive may be made.
- 8. Quantitative requirements are listed on attached sheet.

PHYSICAL	CONSTRA INT'S	-	÷	12110	TABLE
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25X1

- 1. Maximum allowable downward deflection of .0045" with two (2) pounds pressure applied to top front of optics mount.
- 2. Carriage lock in X and Y within following limitations:

Pounds Pressure Applied	Allowable Movement		
2	.005010"		
4	.010020"		
6	.020035"		
6-10	.035070"		

- 3. Average force of l_2 lbs. (+ or l_2 lb.) required to manually move carriage in X & Y directions.
- 4. Electrical carriage movement (scan speei) continuously variable within the range of .002"/sec. .250" (or greater)/sec. in both X and Y direction. Maximum allowable speed differential between X and Y direction at same speed setting is 2 times. Drive will respond at all speed settings without adjusting settings.
- 5. Mechanical carriage movement capable of smoothly moving optics mountin X and Y direction at minimum hand driven speeds of .001 in/sec.